

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A composition curable by radical photo curing and cationic photo curing in combination, comprising the under-mentioned components (A), (B), (C) and (D) as essential components:

(A) a vinyl polymer having two or more groups represented by general formula (1):



wherein R^a represents a hydrogen atom or an organic group having 1 to 20 carbon atoms, per molecule, the group represented by general formula (1) being present at one or more molecular ends;

(B) an epoxy compound and / or an oxetane compound;

(C) a radical photopolymerization initiator; and

(D) a cationic photopolymerization initiator, and

wherein the vinyl monomer constituting the main chain of component (A) comprises a (meth)acrylic monomer as a main component and a (meth)acryloyl group exists at the molecular end.

2. (canceled).

3. (previously presented): The curable composition of Claim 1, wherein the vinyl monomer constituting the main chain of component (A) comprises an acrylic acid ester monomer as a main component.

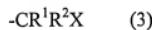
4. (previously presented): he curable composition of Claim 1, wherein the vinyl monomer constituting the main chain of component (A) contains at least 2 monomers selected from the group consisting of butyl acrylate, ethyl acrylate and 2-methoxyethyl acrylate.

5. (previously presented): The curable composition of Claim 1, wherein R^a is a hydrogen atom or a hydrocarbon group having 1 to 20 carbon atoms.

6. (original): The curable composition of Claim 5, wherein R^a is a hydrogen atom or a methyl group.

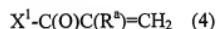
7. (previously presented): The curable composition of Claim 1, wherein component (A) is produced by reacting a compound indicated by general formula (2):
$$M^+ \cdot OC(O)C(R^a)=CH_2 \quad (2)$$
wherein R^a represents a hydrogen atom or an organic group having 1 to 20 carbon atoms and M⁺ represents an alkali metal ion or a quaternary ammonium ion, with a vinyl polymer having halogen groups at the molecular ends.

8. (original): The curable composition of Claim 7, wherein the vinyl polymer having halogen groups at the molecular ends has a group indicated by general formula (3):



wherein R^1 and R^2 represent a group bonded to the ethylenically unsaturated group of a vinyl monomer, and X represents a chlorine atom, a bromine atom or an iodine atom.

9. (previously presented): The curable composition of Claim 1, wherein component (A) is produced by reacting a compound indicated by general formula (4):



wherein R^{a} represents a hydrogen atom or an organic group having 1 to 20 carbon atoms, and X^1 represents a chlorine atom, a bromine atom or a hydroxyl group, with a vinyl polymer having hydroxyl groups at the ends.

10. (previously presented): The curable composition of Claim 1, wherein component (A) is produced by:

(1) reacting a diisocyanate compound with a vinyl polymer having hydroxyl groups at the ends, and

(2) reacting a compound indicated by general formula (5):



wherein R^{a} represents a hydrogen atom or an organic group having 1 to 20 carbon atoms and R' represents a divalent organic group having 2 to 20 carbon atoms, with the residual isocyanate group.

11. (previously presented): The curable composition of Claim 1, wherein the main chain of component (A) is produced by a living radical polymerization of a vinyl monomer.

12. (original): The curable composition of Claim 11, wherein the living radical polymerization is atom transfer radical polymerization.

13. (original): The curable composition of Claim 12, wherein a transition metal complex being the catalyst of the atom transfer radical polymerization is selected from complexes of copper, nickel, ruthenium and iron.

14. (original): The curable composition of Claim 13, wherein the transition metal complex is a complex of copper.

15. (previously presented): The curable composition of Claim 1, wherein the main chain of component (A) is produced by the polymerization of a vinyl monomer using a chain transfer agent.

16. (previously presented): The curable composition of Claim 1, wherein component (A) has a number average molecular weight of 3,000 or more.

17. (previously presented): The curable composition of Claim 1, wherein the vinyl polymer of component (A) has a ratio of weight average molecular weight to number average molecular weight of less than 1.8 determined by gel permeation chromatography.

18. (previously presented): The curable composition of Claim 1, which further contains a monomer and/or an oligomer having a radical polymerizable group.

19. (previously presented): The composition of Claim 1, which further contains a monomer and/or an oligomer having an anionic polymerizable group.

20. (previously presented): The curable composition of Claim 18, which contains a monomer and/or an oligomer having a (meth)acryloyl group.

21. (original): The curable composition of Claim 20, which contains a monomer and/or an oligomer having a (meth)acryloyl group and having a number average molecular weight of 5,000 or less.

22. (previously presented): The curable composition of Claim 1, wherein the epoxy compound and/or oxetane compound of component (B) has no aromatic ring.

23. (previously presented): The curable composition of Claim 1, which further contains (E) a compound having an epoxy group and a (meth)acryloyl group in its molecule.

24. (original): The curable composition of Claim 23, wherein component (E) is glycidyl methacrylate.